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MATRIX

VD2000BNS

User Manual

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Chapter l Product Introduction

1.1 Specification

VD2000BNS >>>

Model	VD2000BNS
Case Type	Middle Tower
Net Weight	5.68 kg
Dimension (H*W*D)	420 x 190 x 480 mm
Cooling System	Front (Intake) : 120 x 120 x 25 mm (optional) Rear (Exhaust) : 120 x 120 x 25 mm, 1300rpm, 17dBA
Drive Bays - Accessible - Hidden	10 4 x 5.25" , 2 x 3.5" 4 x 3.5"
Material	SECC Japanese steel
Color	Black
Expansion Slots	7
Motherboards	Micro ATX , Standard ATX
Features	All mesh front panel design Dual USB 2.0, IEEE 1394 Firewire, MIC & Speaker ports Tool-free installation for all drive bays & add-on cards High efficiency ventilation: 12cm silent fan in rear (front 12cm fan is optional) Entirely filtered front panel design to prevent dust built up

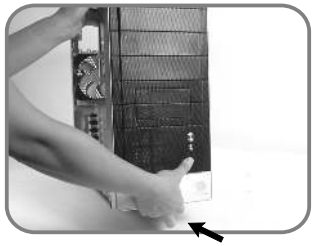
Chapter2 Case Mechanical Operation

2.1 How to open the side panel

To remove the side panel, please remove upper and bottom screws on the back of the case.

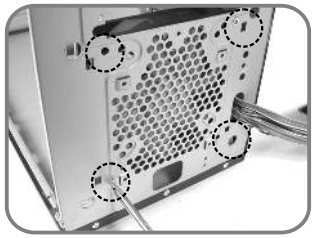
Pull the side panel to release it.

2.2 Front Fan Installation (Optional)



Remove the front panel first.

Place the fan as shown.

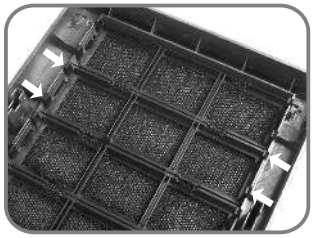


Secure the fan by screws.

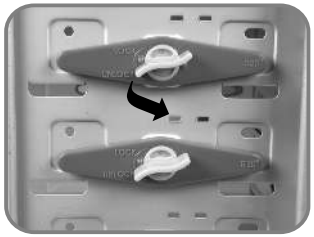
Front fan installation completed.

2.3 Installing 5.25" Device

Remove the front panel.

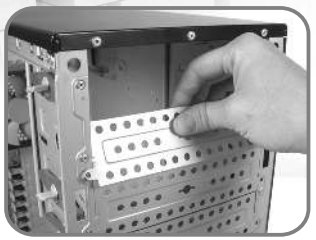


Remove the 5.25" drive bay cover with mesh and black sponge.



Turn lock device counterclockwise to unlock.

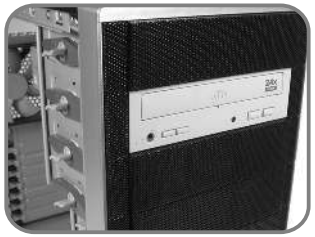
Remove lock device.



Remove the 5.25" drive bay metal cover.

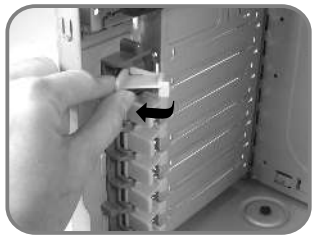
Place 5.25" device into the drive bay.

Put back the lock device and turn lock device clockwise to lock.



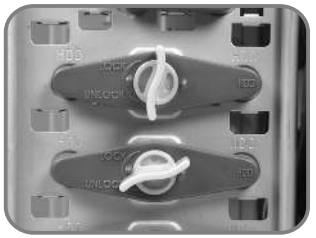
5.25" device installation complete.

2.4 PCI slot tool-free function operation



Open the plastic clip then take off the PCI bracket.

2.5 Installing 3.5" HDD



Turn lock device counter-clockwise to unlock.

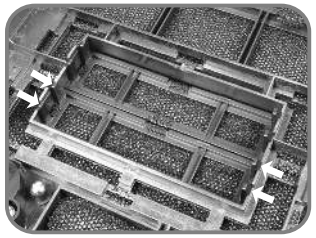
Remove lock device.

Place HDD into the drive bay.

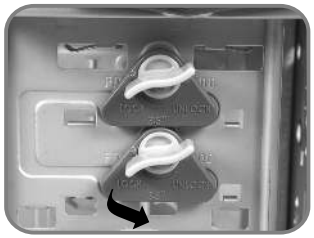
Put back the lock device and turn lock device clockwise to secure the HDD.

2.6 Installing 3.5" device

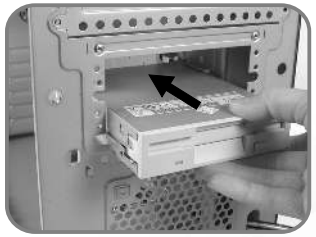
Remove the front panel.



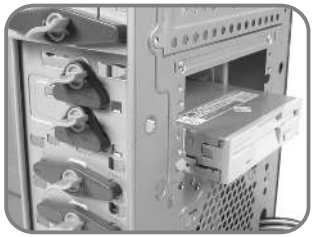
Remove the 3.5" drive bay cover with mesh and black sponge.



Turn lock device counter-clockwise to unlock.



Remove lock device and insert drive from the front of the chassis.



Insert lock device and turn clockwise to secure the drive.

3.5" device installation complete.

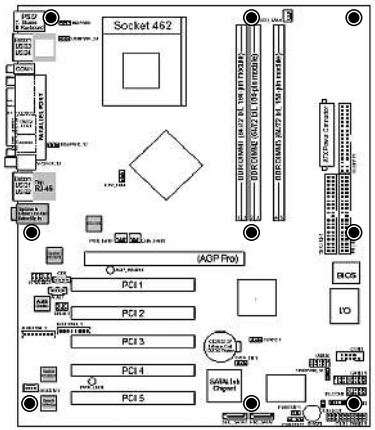
Chapter3 Motherboard & Leads Installation

3.1 Motherboard Installation

Each motherboard has different standoff layout. It is highly suggested that you refer to your motherboard's manual when installing motherboard into the Case. The cases are applicable with Standard ATX, Micro ATX motherboards.
Your motherboard may require a special I/O Panel, which should be included with your motherboard.

Placement Direction:
When installing the motherboard, make sure you follow the direction provided by your motherboard manufacturer. On most standard motherboards, the edge with external ports goes to the rear part of the chassis. It is highly recommended that you install CPU, heat sink and modular components before fixing the motherboard inside the chassis.

This side towards the rear of the chassis



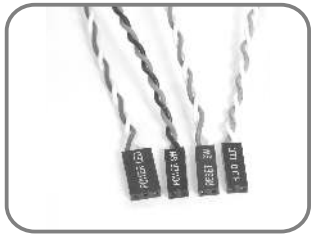
= the locations of the screw holes. Note these locations and place included standoffs on the chassis first.

Above illustration is a sample of what the motherboard's layout. For more detail screw hole placement, please refer to your motherboard manual.

3.2 Case LED connections

On the front of the case, you can find some LEDs and switch leads (POWER SW*1, POWER LED*1, H.D.D. LED*1, RESET SW*1, SPEAKER*1).
Please consult user manual of your motherboard manufacturer, then connect these leads to the panel header on the motherboard. These leads are usually labeled; if not, please trace them back to the case front to find out their source.

- ***POWER LED*** connects to your M/B at the PLED
- ***POWER SW*** connects to the PWR connector on the motherboard.
- ***H.D.D LED*** connects to the 2-pin labeled HDD LED connector.
- **RESET SW** connects to the RSW connector on the motherboard,
- **SPEAKER** connector: find out the 4-pin labeled SPEAKER on the M/B then connect it.



3.3 USB2.0 & IEEE1394 Firewire connection

USB connection

Please consult your motherboard manual to find out the section of "*USB connection*".

USB

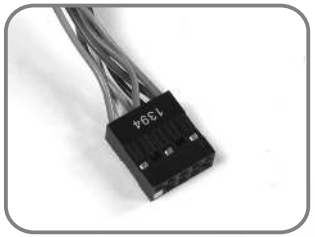
Vcc1	1	2	Vcc2
Data-1	3	4	Data-2
Data+1	5	6	Data+2
GND1	7	8	GND2
	9	10	KEY

IEEE1394 Firewire connection

Please consult your motherboard manual to find out the section of "*IEEE1394 Firewire connection*".

IEEEE1394

TPA-	1	2	TPA+
VG	3	4	VG
TPB-	5	6	TPB+
VP	7	8	VP
SHELL	9	10	KEY



3.4 Ear & MIC connections

Please consult your motherboard manual to find out the section of "front panel audio connector".

AUDIO

GND1		2	MIC-IN
	3	4	MIC-POWER
R-RET	5	6	R-OUT
KEY	7		
L-RET	9	10	L-OUT

Chapter4 Other

4.1 Purepower™ power supply (optional)

The Thermaltake Silent™ Purepower specification meets Intel Pentium 4 and AMD K7; it offers plenty of functions, which mainly include:

1.Automatic Fan Speed Control: The Silent Purepower™ power supply can detect the inside heat and automatically adjust the fan speed to provide adequate airflow.

2.Ultra Silent:Ball bearing fans with high reliability and super low acoustic noise under all load condition.

The functions can assure the Silent Purepower™ meet the balance in noise control and heat exhausted. The Silent Purepower™ provides complete protection function as follow:

1.Over thermal protection at 100°C-105°C
2.Short circuit protection on all output.
3.Over voltage protection / Under voltage protection.
4.Over current protection.

Besides, Thermaltake enables the quality assurance of the Silent Purepower™: 100% Hi-POT and ATE Function Test, 100% Burn-In and AC Input cycled on/off under high temperature condition. Furthermore, it has been approved by ***UL, CSA, TUV, VDE, NODIC, CB, FCC, CE, CNS.***

There are three main products of Thermaltake PSU, it is divided into standard, VR and specialty power supply unit. Please refer to http://www.thermaltake.com/purepower/main.htm